

### Abstract

A transducer for emitting and picking up mechanical vibrations includes a center body (4) suspended in a piezo-electric and elastic suspension structure (3) in a surrounding framework (2). The suspension structure (3) is formed in sectors, and has separate signal wires for each respective sector (5) so that vibrations can be emitted and received at the same time with different sectors (5). In addition, the center body (4) can be equipped with piezo-elements of its own.